

**ABSTRACT OF THE DISCLOSURE**

This invention describes methods of using anti-B cell antibodies, preferably anti-CD20 antibodies, and most preferably Rituximab, to treat B cell lymphomas of the brain, especially primary central nervous system lymphomas (PCNSLs), and to  
5 prevent meningeal relapse. The antibodies can be administered intrathecally alone, or in combination with other chemotherapeutics, such as methotrexate, or other anti-B cell antibodies to treat PCNSL in both immunocompromised and non-immunocompromised patients. These antibodies can also be used to diagnose patients with CNS lymphoma, especially in immunocompromised patients.

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